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NEWS 3 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 4 APR 07 STN is raising the limits on saved answers
NEWS 5 APR 24 CA/CAPLUS now has more comprehensive patent assignee
information
NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
assignment/reassignment information
NEWS 7 APR 28 CAS patent authority coverage expanded
NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 9 APR 28 Limits doubled for structure searching in CAS
REGISTRY
NEWS 10 MAY 08 STN Express, Version 8.4, now available
NEWS 11 MAY 11 STN on the Web enhanced
NEWS 12 MAY 11 BEILSTEIN substance information now available on
STN Easy
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
limits for exact sequence match searches and
introduction of free HIT display format
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
enhanced on STN
NEWS 17 JUN 26 NUTRACEUT and PHARMAML no longer updated
NEWS 18 JUN 29 IMSCOPROFILE now reloaded monthly
NEWS 19 JUN 29 EFPULL adds SLART to AB, MCLM, and TI fields
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.
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***** STN Columbus *****

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=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

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STRUCTURE FILE UPDATES: 30 JUN 2009 HIGHEST RN 1160555-05-4
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=>

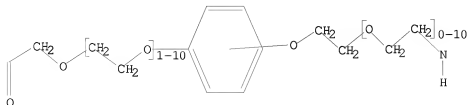
Uploading C:\Program Files\Stnexp\Queries\11573868-Ib.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:34:18 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5144 TO ITERATE

38.9% PROCESSED 2000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 98579 TO 107181

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 11:34:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 101816 TO ITERATE

100.0% PROCESSED 101816 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

L3

6 SEA SSS FUL L1

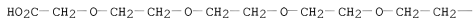
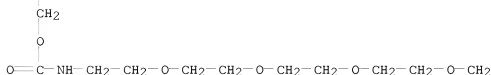
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L3 6 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

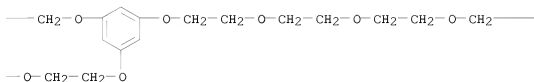
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1-(9H-fluoren-9-ylmethyl) ester

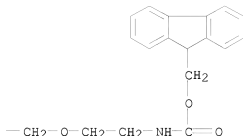
MF C68 H90 N2 O22

PAGE 1-A



PAGE 1-B





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus
'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	186.36	186.58

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FILE COVERS 1907 - 1 Jul 2009 VOL 151 ISS 1
FILE LAST UPDATED: 30 Jun 2009 (20090630/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

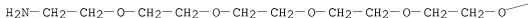
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L4 3 L3

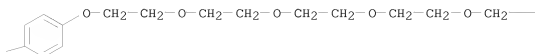
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YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:406941 CAPLUS
DOCUMENT NUMBER: 141:273853
TITLE: Design and synthesis of novel hydrophilic spacers for
the reduction of nonspecific binding proteins on
affinity resins
AUTHOR(S): Shiyama, Takaaki; Furuya, Minoru; Yamazaki, Akira;
Terada, Tomohiro; Tanaka, Akito
CORPORATE SOURCE: Chemistry Department, Reverse Proteomics Research
Institute Co., Ltd, Chiba, 292-0818, Japan
SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(11),
2831-2841
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:273853
AB Tubulin and actin often bind nonspecifically to affinity chromatog.
resins, complicating research toward identifying the cellular targets.
Reduction of nonspecific binding proteins is important for success in finding
such targets. We herein disclose the design, synthesis, and effectiveness
in reduction of nonspecific binding proteins, of novel hydrophilic spacers
(2-5), which were introduced between matrixes and a ligand. Among them,
tartaric acid derivative (5) exhibited the most effective reduction of
nonspecific
binding proteins, while maintaining binding of the target protein.
Introduction of 5 on TOYOPEARL reduced tubulin and actin by almost 65% and
90% compared to that without the hydrophilic spacer, resp., with effective
binding to the target protein, FKBP12.
IT 675606-56-1P 675606-57-2P 675606-58-3P
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST
(Analytical study); PREP (Preparation)
(design and synthesis of novel hydrophilic spacers for reduction of
nonspecific binding proteins on affinity resins)
RN 675606-56-1 CAPLUS
CN 3,6,9,12,15-Pentaoxaheptadecanoic acid,
17-[4-[(14-amino-3,6,9,12-tetraoxatetradec-1-yl)oxy]phenoxy]-,
1,1-dimethylethyl ester (CA INDEX NAME)

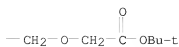
PAGE 1-A



PAGE 1-B



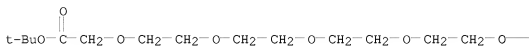
PAGE 1-C



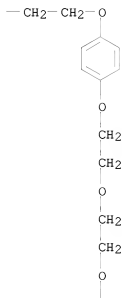
RN 675606-57-2 CAPLUS

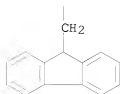
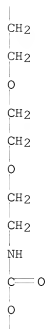
CN 3,6,9,12,15-Pentaoxaheptadecanoic acid,
17-[4-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 1-A

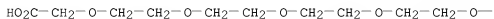


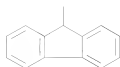
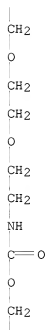
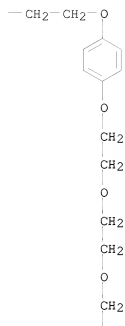
PAGE 1-B





RN 675606-58-3 CAPLUS
 CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid,
 16-[4-[(16-carboxy-3,6,9,12,15-pentaoxahexadec-1-yl)oxy]phenoxy]-,
 1-(9H-fluoren-9-ylmethyl) ester (CA INDEX NAME)





REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:252751 CAPLUS

DOCUMENT NUMBER: 140:283950

TITLE: Synthesis of hydrophilic spacers that can reduce nonspecific adsorption of molecules to the surface of solid phase matrix and application to preparation of affinity ligand-immobilized matrixes

INVENTOR(S): Tanaka, Akito; Terada, Tomohiro; Tamura, Tsurunori; Ichiyama, Takaaki; Yamazaki, Akira; Furuya, Minoru; Haramura, Masayuki

PATENT ASSIGNEE(S): Reverse Proteomics Research Institute Co., Ltd., Japan; Fujisawa Pharmaceutical Co., Ltd.

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004025297	A1	20040325	WO 2003-JP9640	20030730
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, BR, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003254782	A1	20040430	AU 2003-254782	20030730
EP 1553412	A1	20050713	EP 2003-795206	20030730
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 20060177943	A1	20060810	US 2006-522716	20060120
PRIORITY APPLN. INFO.:			JP 2002-222226	A 20020730
			WO 2003-JP9640	W 20030730

OTHER SOURCE(S): MARPAT 140:283950

AB Chemical modification method for reducing nonspecific adsorption of mols. to the surface of solid phase matrixes in order to promote specific interaction of immobilized mols. with the target partner mols. The strategy includes the controlling the hydrophobicity of the surface by introducing hydrophilic spacers. These hydrophilic spacers are designed to have ≥ 6 hydrogen bond acceptors, ≥ 5 hydrogen bond donors and their sum are ≥ 9 , ≥ 1 carbonyl group, no charged groups. The specific structures for the hydrophilic spacers with reactive carbonyl and amino groups have been designed and synthesized. The hydrophilic spacers have the structures of polyols containing methylenes with linear or branched alkyl group of 1.apprx.3 carbon or $-CH_2OH$, the two or three polyethylene glycol chains (1 .apprx. 1000 EG units) linked to phenol derivs., and alkyl chain (C: n = 1 .apprx. 10) linked with 1 .apprx. 10 unit(s) of $(-O-C(R_1, R_2)C(R_3, R_4)-)$ (R_1-R_4 : linear or branched alkyl of 1.apprx.3 carbon). The matrixes with these spacers can be used for immobilization of various sizes of ligands (low or high mol. weight) and for analyses of their interaction with the target partner mols. of various mol. sizes. The applications of some hydrophilic spacers to immobilization of affinity ligands such as FK506 to TOYO-pearl AF-amino resin or gold-film matrixes and detection of FKBP12 protein in rat brain

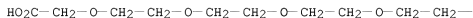
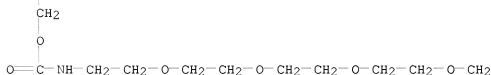
lysate by using the prepared FK506-matrix were demonstrated.

IT 675606-75-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (potential use as hydrophilic spacer; synthesis of hydrophilic spacers
 that can reduce nonspecific adsorption of mols. to surface of solid
 phase matrix and application to preparation of affinity ligand-immobilized
 matrixes)

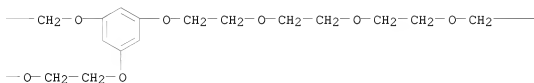
RN 675606-75-4 CAPLUS

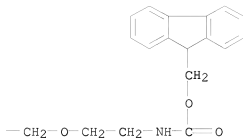
CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid,
 16-[3-[(16-carboxy-3,6,9,12,15-pentaoxa-hexadec-1-yl)oxy]-5-[[18-(9H-
 fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-aza-octadec-1-yl]oxy]phenoxy]-
 , 1-(9H-fluoren-9-ylmethyl) ester (CA INDEX NAME)

PAGE 1-A



PAGE 1-B





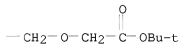
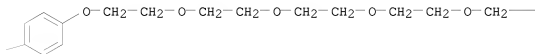
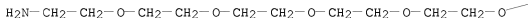
IT 675606-56-1P 675606-57-2P 675606-74-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of hydrophilic spacers that can reduce nonspecific adsorption of mols. to surface of solid phase matrix and application to preparation of affinity ligand-immobilized matrixes)

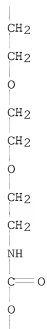
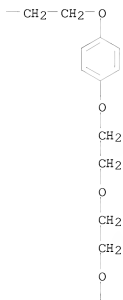
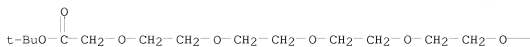
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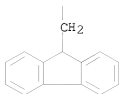
CN 3,6,9,12,15-Pentaoxaheptadecanoic acid,
17-[4-[(14-amino-3,6,9,12-tetraoxatetradec-1-yl)oxy]phenoxy]-,
1,1-dimethylethyl ester (CA INDEX NAME)



RN 675606-57-2 CAPLUS

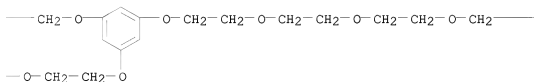
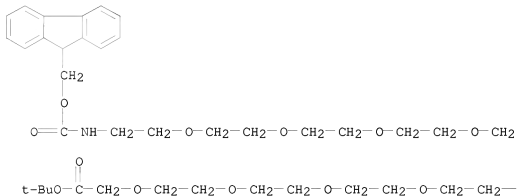
CN 3,6,9,12,15-Pentaoxaheptadecanoic acid,
17-[4-[(18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl)oxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

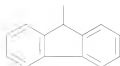
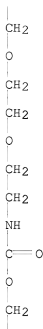




RN 675606-74-3 CAPLUS

CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid,
16-[3-[(19,19-dimethyl-17-oxo-3,6,9,12,15,18-hexaoxaicos-1-yl)oxy]-5-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 9H-fluoren-9-ylmethyl ester (CA INDEX NAME)





REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:516284 CAPLUS

DOCUMENT NUMBER: 125:247294

ORIGINAL REFERENCE NO.: 125:46221a,46224a

TITLE: Syntheses of ligands containing two and three 2,2'-(bisamino)diphenyl ether units designed for molecular self-assembly on lithiation

AUTHOR(S): Ashton, Peter R.; Hoerner, Bernd; Kocian, Oldrich; Menzer, Stephan; White, Andrew J. P.; Stoddart, J. Fraser; Williams, David J.

CORPORATE SOURCE: School Chem., Univ. Birmingham, Birmingham, B15 2TT, UK

SOURCE: Synthesis (1996), (8), 930-940

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The syntheses of polyamines containing 2-3 2,2'-(bisamino)diphenyl ether units linked together, designed for self-assembly following lithiation, are reported. The x-ray crystal structures of 2 of the bis[2,2-(bisamino)diphenyl ethers] are described. The ligand, which is linked by an ethylene glycol spacer, exhibits a coiled conformation by intramol. H bonds and supplemented by [CH- π] interactions. The ligand, which is linked by a more rigid bridge, containing a paraphenylene unit,

displays a stretched conformation stabilized by intramol. edge to face interactions.

IT 181725-62-2P

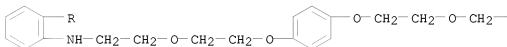
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of ligands with (bisamino)diphenyl ether units)

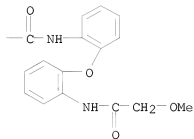
RN 181725-62-2 CAPLUS

CN Acetamide, 2,2'-[oxybis(2,1-phenyleneimino-2,1-ethanediylloxy-2,1-ethanediylloxy-4,1-phenyleneoxy-2,1-ethanediylloxy)]bis[N-[2-[2-(methoxyacetyl)amino]phenoxy]phenyl]- (9CI) (CA INDEX NAME)

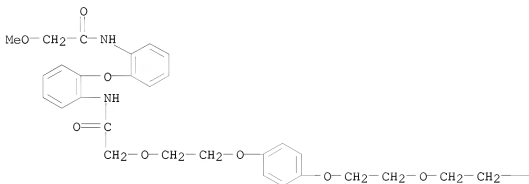
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PAGE 2-A



R—O—

